

Amendment to the Claims

1 1. (Currently Amended) A method for provisioning a user interface comprising:
2 determining locally by a client device, a current display state offer a user
3 interface; and
4 provisioning by the client device, a current instantiation of said user interface in
5 accordance with a first one or more display state definitions corresponding to the
6 determined current display state, ~~each of said first one or more~~ display state definitions
7 including first one or more display cell definitions for first one or more display cells of
8 said user interface, while said user interface in said current display state.

1 2. (Currently Amended) The method of claim 1, wherein said determining is locally
2 made by said client device in accordance with a second display cell definition of a
3 second display state definition of the user interface for a second rendered display cell of
4 an immediately preceding instantiation of the user interface for an immediately
5 preceding display state of the user interface, with which a user interacted, said second
6 display cell definition including a state transition rule specifying the current display state
7 as the display state offer the user interface in the event a user interacts with the second
8 rendered display cell.

1 3. (Currently Amended) The method of claim 1, wherein said provisioning
2 comprises generating by said client device at least a first portion of the current
3 instantiation of the user interface in accordance with one of said first one or more
4 display cell definitions for one of said first one or more display cells of the user
5 interface, ~~the first display cell definition specifying constituting contents of said first~~
6 ~~display cell of the user interface.~~

1 4. (Currently Amended) The method of claim 3, wherein said provisioning further
2 comprises generating by said client device a second portion of the current instantiation
3 of the user interface in accordance with ~~a second~~ another one of said first one or more
4 display cell definitions ~~for a second~~ another one of said first one or more display cells of
5 the user interface, ~~the second display cell definition specifying constituting contents of~~
6 ~~said second display cell of the user interface.~~

1 5. (Currently Amended) The method of claim 1, wherein said provisioning
2 comprises generating by said client device a portion of the current instantiation of the
3 user interface with constituting contents inherited from a pseudo instantiation of the
4 user interface ~~based on a pseudo display state.~~

1 6. (Currently Amended) The method of claim 1, wherein said current display state is
2 multi-dimensional.

1 7. (Cancelled)

1 8. (Cancelled)

1 9. (Currently Amended) A method for provisioning a user interface comprising:
2 generating by a client device a first portion of an instantiation of a user interface
3 with constituting contents inherited from a pseudo instantiation of the user interface;
4 and
5 generating by the client device a second portion of said instantiation of said user
6 interface in accordance with a display cell definition for a display cell, the display cell

definition specifying constituting contents for said display cell for said instantiation of said user interface.

10. (Currently Amended) A method for provisioning a user interface comprising:

provisioning by a client device a first instantiation of a user interface in accordance with a first ~~one or more~~ display state definitions corresponding to a current display state of the user interface;

determining locally by said client device a next display state for the user interface based on a user's interaction with a portion of the first instantiation of the user interface and in accordance with said first ~~one or more~~ display state definitions, which include specifications for state transition rules correspondingly specifying display states of the user interface to be transitioned to, in the event of or for various user interactions with various portions the user interface; and

provisioning by the client device a next instantiation of the user interface in accordance with a second ~~one or more~~ display state definitions corresponding to ~~for the~~ determined next display state of the user interface.

11. (Currently Amended) A method for provisioning a user interface comprising:

transmitting by a server to a remote client device, a first ~~one or more~~ display state definitions corresponding to a first display state of the user interface, specifying constituting contents for a first plurality of display cells ~~of a first for the~~ instantiation of ~~the~~ an user interface for the first display state of the user interface;

transmitting by the server to said remote client device, said constituting contents for said first plurality of display cells for rendering on said remote client device in accordance with said first display state definition corresponding to the first display state of the user interface;

transmitting further in advance by the server to said remote client device, a second ~~one or more~~ display state definitions corresponding to a second display state of the user interface, specifying constituting contents for a second plurality of display cells ~~of a second~~ for the instantiation of the ~~an~~ user interface for the second display state, the second display state being resulted to be rendered in response to ~~from~~ a first user interaction with said ~~first~~ instantiation of the user interface for the first display state; and transmitting further in advance by the server to said remote client device, said constituting contents for said second plurality of display cells for rendering on said remote client device in accordance with said second display state definition corresponding to the second display state of the user interface ~~in the event said first user interaction occurs~~.

12. (Currently Amended) The method of claim 11, wherein the method further comprising:

transmitting by the server to said remote client device, constituting content of a pseudo instantiation of said user interface to be inherited during at least a selected one of said rendering, in accordance with a corresponding one of said first and ~~said second~~ display state definitions corresponding to said first and second display states ~~instantiation~~ of said user interface.

13. (Currently Amended) The method of claim 11, wherein ~~each of~~ said first and second ~~one or more~~ display state definitions correspondingly comprises first/ and second plurality of display cell definitions correspondingly specifying constituting contents for said first/ and second plurality of display cells for said first and second display states of the user interface.

1 14. (Currently Amended) The method of claim 13, wherein ~~each of~~ said first and
2 second display cell definitions further corresponding comprises first/ and second
3 plurality of display state transition rules correspondingly specifying display states of the
4 user interface, to be transitioned to in the event of various user interactions with the
5 corresponding first/ and second display cells at the respective first and second display
6 states of the user interface.

1 15. (Currently Amended) A product comprising:
2 a first plurality of programming instructions to implement a user interface
3 provision function equipped to determine a current display state for a user interface,
4 and to provision a current instantiation of said user interface in accordance with a first
5 ~~one or more~~ display state definitions corresponding to for the determined current display
6 state, ~~each of the first one or more~~ said display state definitions including first one or
7 more display cell definitions for first one or more display cells of said user interface
8 while in said current display state; and
9 a second plurality of programming instructions implementing at least one other
10 product function.

1 16. (Currently Amended) The product of claim 15, wherein said first programming
2 instructions further equip said user interface provision function to make said
3 determination in accordance with a second display cell definition for a second rendered
4 display cell of an immediately preceding instantiation of the user interface with which a
5 user interacted, while in an immediately preceding display state of the user interface,
6 said second display cell definition including a state transition rule specifying transition to
7 the current display state for the user interface in the event a user interacts with the
8 second rendered display cell, while in the immediately preceding display state of the
9 user interface.

1 17. (Currently Amended) The product of claim 15, wherein said first programming
2 instructions further equip said user interface provision function to perform said
3 provisioning by generating at least a first portion of the current instantiation of the user
4 interface in accordance with one of said first display cell definitions for one of said first
5 display cells of the user interface, ~~the first display cell definition including constituting~~
6 ~~contents of said first display cell of the user interface.~~

1 18. (Currently Amended) The product of claim 17, wherein said first programming
2 instructions further equip said user interface provision function to perform said
3 provisioning by generating a second portion of the current instantiation of the user
4 interface in accordance with another one of said first-second display cell definitions for
5 another one of said second first display cells of the user interface, ~~the second display~~
6 ~~cell definition including constituting contents of said second display cell of the user~~
7 ~~interface.~~

1 19. (Currently Amended) The product of claim 15, wherein said first programming
2 instructions equip said user interface provision function to perform said provisioning by
3 generating a portion of the current instantiation of the user interface with constituting
4 contents inherited from a pseudo instantiation of the user interface ~~based on a pseudo~~
5 ~~display state.~~

1 20. (Currently Amended) The product of claim 15, wherein said current display state
2 is multi-dimensional.

1 21. (Original) The product of claim 15, wherein the product is a selected one of a
2 browser and an operating system.

1 22. (Cancelled)

1 23. (Cancelled)

1 24. (Original) A product comprising:

2 a first plurality of programming instructions to implement a user interface
3 provision function equipped to generate a first portion of an instantiation of a user
4 interface with constituting contents inherited from a pseudo instantiation of the user
5 interface, and to generate a second portion of said instantiation of said user interface in
6 accordance with a display cell definition for a display cell, the display cell definition
7 specifying constituting contents for said display cell for said instantiation of said user
8 interface; and

9 a second plurality of programming instructions to implement at least one other
10 product function.

1 25. (Currently Amended) A product comprising:

2 a first plurality of programming instructions to implement a user interface
3 provision function equipped to provision a first instantiation of a user interface in
4 accordance with a first ~~one or more~~ display state definitions, to determine a next display
5 state ~~offer~~ the user interface based on a user's interaction ~~face~~ with a portion of the first
6 instantiation of the user interface and in accordance with said first ~~one or more~~ display
7 state definitions, which include ~~specifications for state transition rules~~ specifying display
8 states to be transitioned to, in the event of various user interactions, and to provision a
9 next instantiation of the user interface in accordance with a second ~~one or more~~ display
10 state definitions for the determined next display state of the user interface; and

11 a second plurality of programming instructions to implement at least one other
12 product function.

1 26. (Currently Amended) An application server comprising:

2 a first plurality of programming instructions to implement a communication
3 function; and

4 a second plurality of programming instructions to implement a user interface
5 provision function equipped to transmit to a remote client device, a first ~~one or more~~
6 display state definitions specifying constituting contents for a first plurality of display
7 cells of a first instantiation of an user interface for a first display state of the user
8 interface, and constituting contents for said first plurality of display cells for rendering on
9 said remote client device in accordance with said first ~~one or more~~ display state
10 definitions, and to transmit further in advance to said remote client device, a second
11 ~~one or more~~ display state definitions specifying constituting contents for a second
12 plurality of display cells of a second instantiation of an user interface for a second
13 display state to be rendered in response to a first user interaction with said first
14 instantiation of the user interface, and said constituting contents for said second
15 plurality of display cells for rendering on said remote client device in accordance with
16 said second ~~one or more~~ display state definitions in the event said first user interaction
17 occurs.

1 27. (Currently Amended) The application server of claim 26, wherein the second
2 plurality of programming instructions further equip the user interface provision function
3 to be able to transmitting to said remote client device, constituting content of a pseudo
4 instantiation of said user interface to be inherited in at least a selected one of said
5 rendering of said first and said second instantiation of said user interface.

1 28. (Currently Amended) The application server of claim 26, wherein ~~each of said~~
2 first and second one or more display state definitions comprises corresponding first/
3 and second plurality of display cell definitions correspondingly specifying constituting
4 contents for said first/ and second plurality of display cells.

1 29. (Currently Amended) The application server of claim 28, wherein ~~each of said~~
2 first and second display cell definitions further comprises corresponding first and
3 /second plurality of display state transition rules correspondingly specifying display
4 states of the user interface to be transitioned to in the event of various user interactions
5 with the first/ and second display cells.

1 30. (Currently Amended) A client device comprising:
2 a storage medium having stored therein a plurality of programming instructions
3 to implement a user interface provision function equipped to determine a current display
4 state offer a user interface, and to provision a current instantiation of said user interface
5 in accordance with ~~one or more~~ a first display state definitions for the determined
6 current display state of the user interface, ~~each of said one or more said first~~ display
7 state definitions including one or more display cell definitions for one or more display
8 cells of said user interface, while the user interface in said display state; and
9 a processor coupled to the storage medium to execute the programming
10 instructions.

1 31. (Currently Amended) The client device of claim 30, wherein said programming
2 instructions further equip said user interface provision function to make said
3 determination in accordance with a first display cell definition for a first rendered display
4 cell of an immediately preceding instantiation of the user interface with which a user
5 interacted, said first display cell definition including a state transition rule specifying

6 transition to the current display state offer the user interface in the event a user
7 interacts with the first rendered display cell.

1 32. (Currently Amended) The client device of claim 30, wherein said programming
2 instructions further equip said user interface provision function to perform said
3 provisioning by generating at least a first portion of the current instantiation of the user
4 interface in accordance with a first display cell definition for a first display cell of the
5 user interface, the first display cell definition including constituting contents of said first
6 display cell of the user interface, while the user interface in said current display state.

1 33. (Currently Amended) The client device of claim 32, wherein said programming
2 instructions further equip said user interface provision function to perform said
3 provisioning by generating a second portion of the current instantiation of the user
4 interface in accordance with a second display cell definition for a second display cell of
5 the user interface, the second display cell definition including constituting contents of
6 said second display cell of the user interface, while the user interface in said current
7 display state.

1 34. (Currently Amended) The client device of claim 30, wherein said programming
2 instructions equip said user interface provision function to perform said provisioning by
3 generating a portion of the current instantiation of the user interface with constituting
4 contents inherited from a pseudo instantiation of the user interface ~~based on a pseudo~~
5 ~~display state.~~

1 35. (Currently Amended) The client device of claim 30, wherein said current display
2 state is multi-dimensional.

1 36. (Currently Amended) The client device of claim 30, wherein the client device is a
2 device selected-one from a group consisting of a wireless telephone, a palm sized
3 computing device, and a notebook sized computing device.

1 37. (Cancelled)

1 38. (Cancelled)

1 39. (Original) A client device comprising:
2 a storage medium having stored therein a plurality of programming instructions
3 to implement a user interface provision function equipped to generate a first portion of
4 an instantiation of a user interface with constituting contents inherited from a pseudo
5 instantiation of the user interface, and to generate a second portion of said instantiation
6 of said user interface in accordance with a display cell definition for a display cell, the
7 display cell definition specifying constituting contents for said display cell for said
8 instantiation of said user interface; and
9 a processor coupled to the storage medium to execute the programming
10 instructions.

1 40. (Currently Amended) A client device comprising:
2 a storage medium having stored therein a plurality of programming instructions
3 to implement a user interface provision function equipped to provision a first
4 instantiation of a user interface in accordance with a first ~~one or more~~-display state
5 definitions, to determine a next display state offer the user interface based on a user's
6 interaction ~~face~~ with a portion of the first instantiation of the user interface and in
7 accordance with said first ~~one or more~~-display state definitions, which include
8 specifications for state transition rules specifying display states of the user interface to

9 be transitioned to, in the event of various user interactions, and to provision a next
10 instantiation of the user interface in accordance with a second ~~one or more~~ display
11 state definitions for the determined next display state of the user interface; and
12 a processor coupled to the storage medium to execute the programming
13 instructions.

1 41. (Currently Amended) A server comprising:

2 a storage medium having stored therein a plurality of programming instructions
3 to implement a user interface provision function equipped to transmit to a remote client
4 device, a first ~~one or more~~ display state definitions specifying constituting contents for a
5 first plurality of display cells of a first instantiation of an user interface, while the user
6 interface in a first display state, and constituting contents for said first plurality of display
7 cells for rendering on said remote client device in accordance with said first ~~one or more~~
8 display state definitions, and to transmit further in advance to said remote client device,
9 a second ~~one or more~~ display state definitions specifying constituting contents for a
10 second plurality of display cells of a second instantiation of an user interface to be
11 rendered in response to a first user interaction with said first instantiation of the user
12 interface, leading to a second display state of the user interface, and said constituting
13 contents for said second plurality of display cells for rendering on said remote client
14 device in accordance with said second ~~one or more~~ display state definitions in the event
15 said first user interaction occurs; and
16 at least one processor coupled to the storage medium to execute the
17 programming instructions.

1 42. (Currently Amended) The server of claim 41, wherein the plurality of
2 programming instructions further equip the user interface provision function to
3 transmitting to said remote client device, constituting content of a pseudo instantiation

4 of said user interface to be inherited in at least a selected one of said rendering of said
5 first and said second instantiations of said user interface.

1 43. (Currently Amended) The server of claim 41, wherein ~~each of~~ said first and
2 second one or more display state definitions comprises corresponding first/ and second
3 plurality of display cell definitions correspondingly specifying constituting contents for
4 said first/ and second plurality of display cells.

1 44. (Currently Amended) The server of claim 43, wherein ~~each of~~ said first and
2 second display cell definitions further comprises corresponding first/ and second
3 plurality of display state transition rules correspondingly specifying display states of the
4 user interface to be transitioned to in the event of user interactions with the first/ and
5 second display cells.